

Openmind's Smishing Prevention Service

How Smishing is attacking SMS
and how it can be stopped.

Introduction to Openmind

We have proven expertise in implementing Solutions that deliver and protect messaging traffic for mobile and wholesale

We help our customers protect the integrity of the SMS messaging service for important commercial and public safety use cases

Openmind is a leading independent supplier of messaging security solutions to mobile operators

We work with our customers to ensure the service we offer complies with all local regulations and subscriber privacy guidelines



Global Customer Base

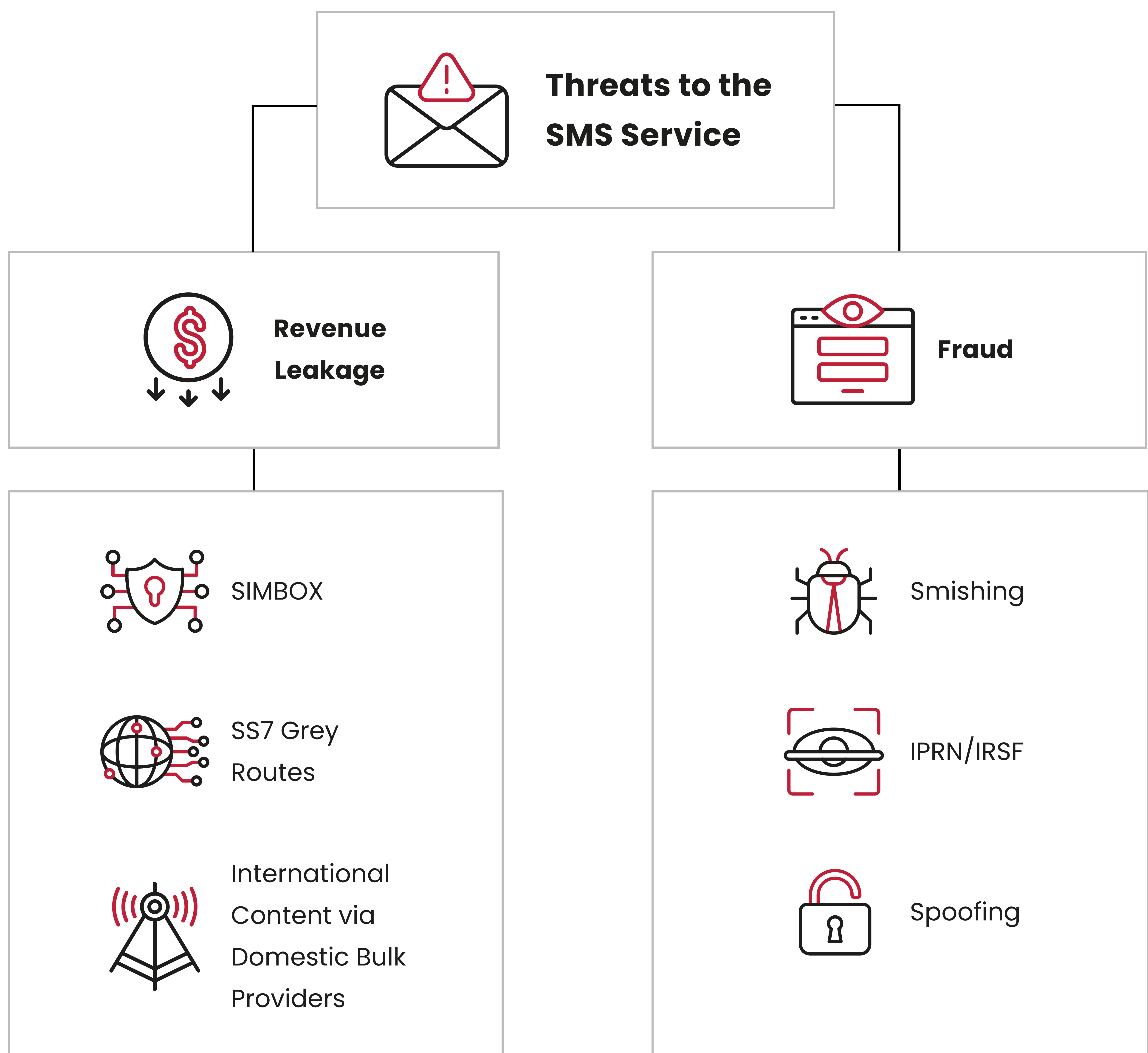
				
				
				

Smart Services **Portfolio** for Operators

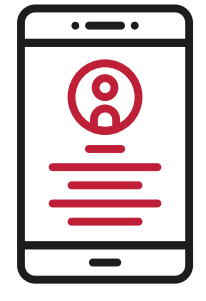
New services that add more intelligent fraud & revenue assurance detection capabilities to an existing firewall

All software can be locally deployed at Operator

Subscriber data always processed in accordance with local regulations



Openmind's Messaging Security Solutions



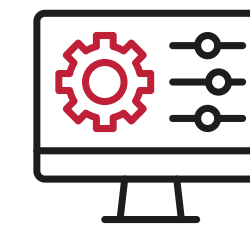
Widely-Deployed SMS Firewall "Protect"

- GSMA-standard SMS Firewall
- Rules-engine capable of screening messages based on all protocol layers
- Designed to stop SS7-based attacks such as Spoofing and Faking
- Supports additional call-outs to external systems with extra capabilities



Insight Business Intelligence

- Reports & Dashboards providing in-depth analysis of message traffic and Firewall actions



Managed Services Portfolio

- Set of Machine-Learning based advanced fraud & revenue assurance solutions offered by Openmind as managed services

Separate solutions for:

- Smishing Detection
- Grey Routes Detection
- SIMBOX Detection
- IPRN Fraud Detection
- SMS Firewall Managed Service
- Reporting & Analytics Managed Service

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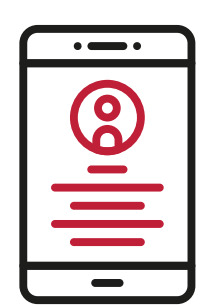
Openmind are 100% focused on enabling and protecting mobile messaging services at Operators around the world.

Openmind's View on Smishing & SMS Fraud

We believe strongly that criminal activity on messaging networks should not be tolerated – subscribers should feel 100% safe in using mobile messaging services

The continued prevalence of Smishing & other types of SMS Fraud is a huge risk to the future of SMS services – the industry needs to take immediate steps to stop this fraud and protect SMS for essential use cases. It is possible to protect both network and subscribers without compromising privacy – we work with our customers and regulators to implement solutions that stop fraud without impacting subscriber privacy

Our Smishing Prevention Strategy



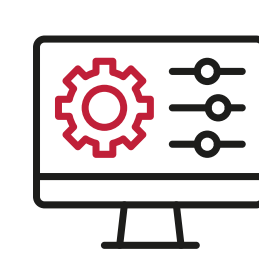
Dynamic threats require dynamic solutions



Smishing is a constantly evolving threat – Fraudsters regularly modify their attacks to bypass measures introduced by Operators



Openmind's solution combines the expertise of our staff with continuously updated technical tools installed in our customer's networks.



We rapidly respond to changes in Smishing attacks to keep our customers and their subscribers safe – Our Managed Services approach means our customers do not have to worry about the technical detail of our solution

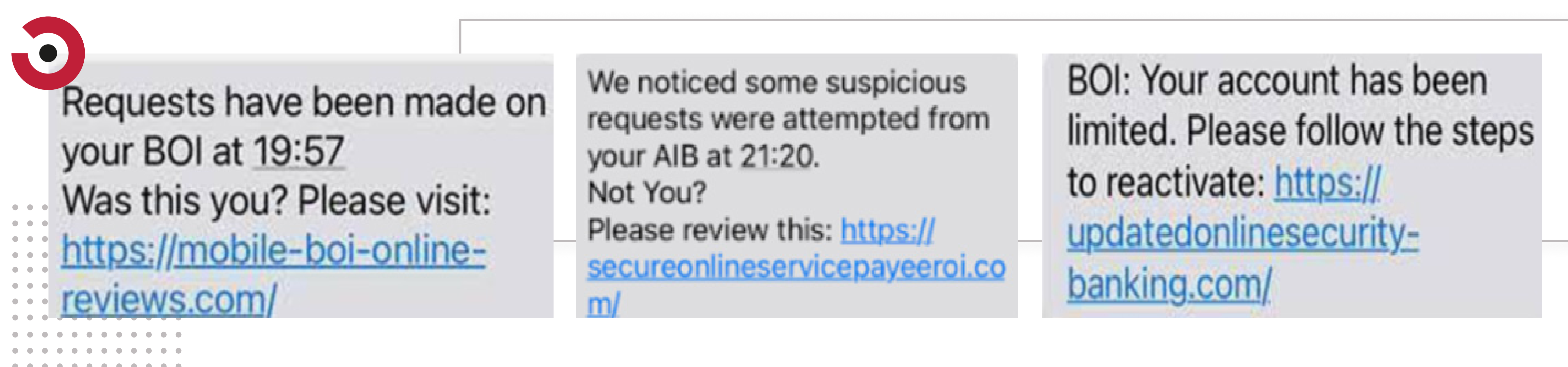


Subscriber Privacy is protected at all times

Openmind's Smishing Prevention Service

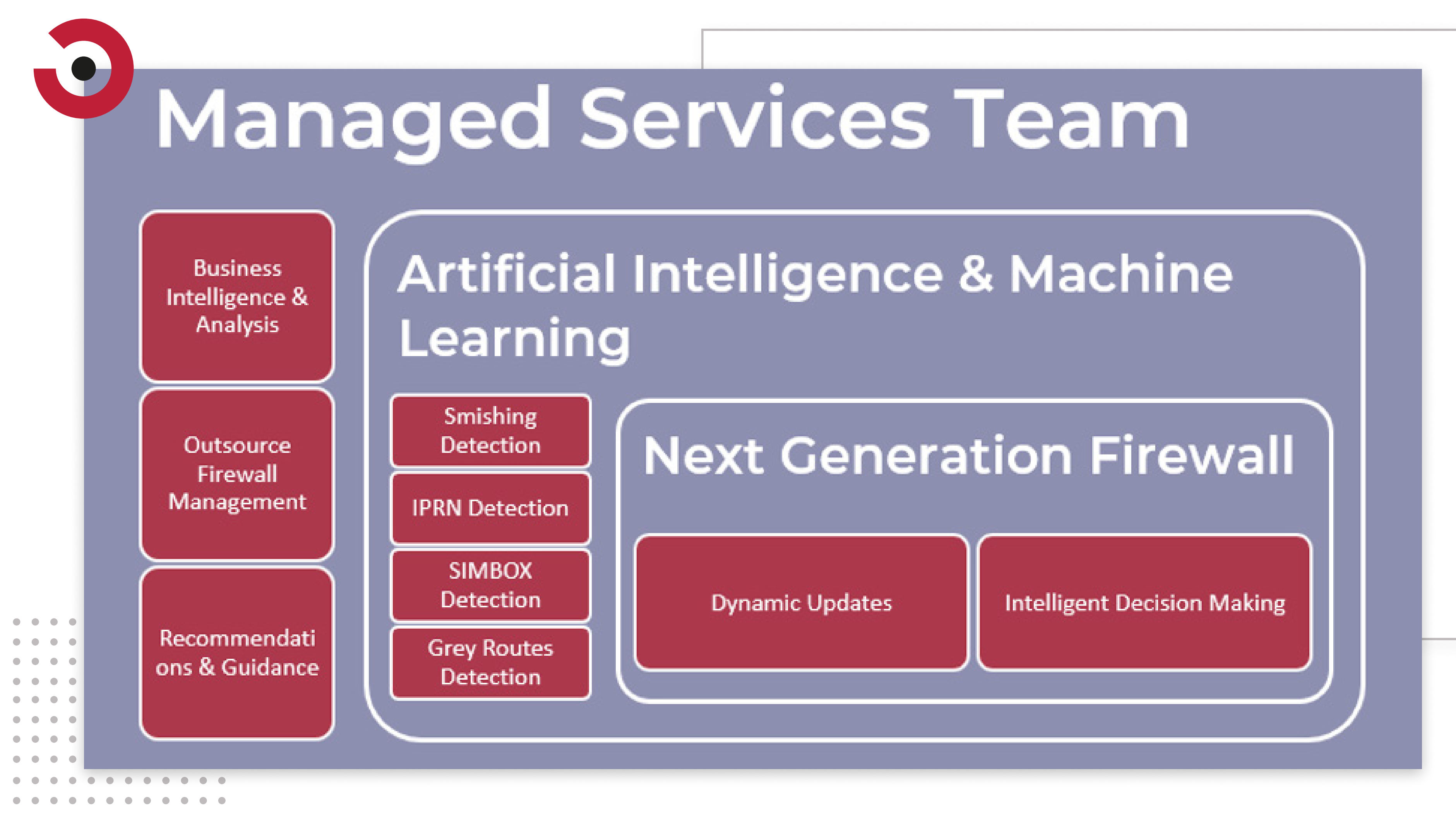
Openmind's Smishing Prevention Service supports the detection and blocking of Smishing messages on Mobile Networks

Service is based on analysis of URLs circulating on the network to identify and block the fraudulent ones. Solution is a combination of service & technology provided by Openmind



Openmind's SMS Security Services Solution Components

All our SMS Security Services are built on our Next Generation Firewall platform with additional artificial intelligence/machine learning based tools combined with expert consultancy offered by our Managed Services Team

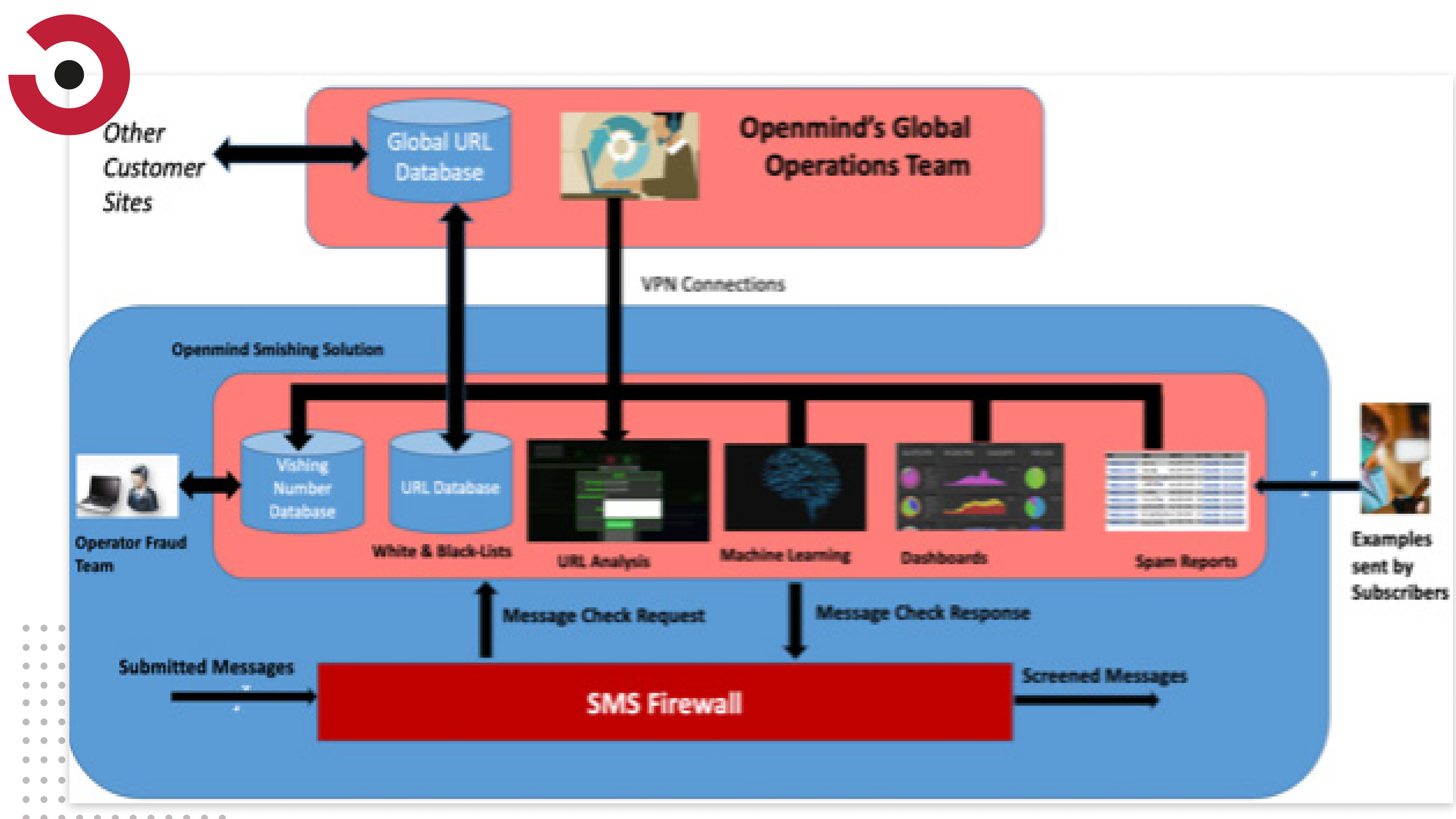
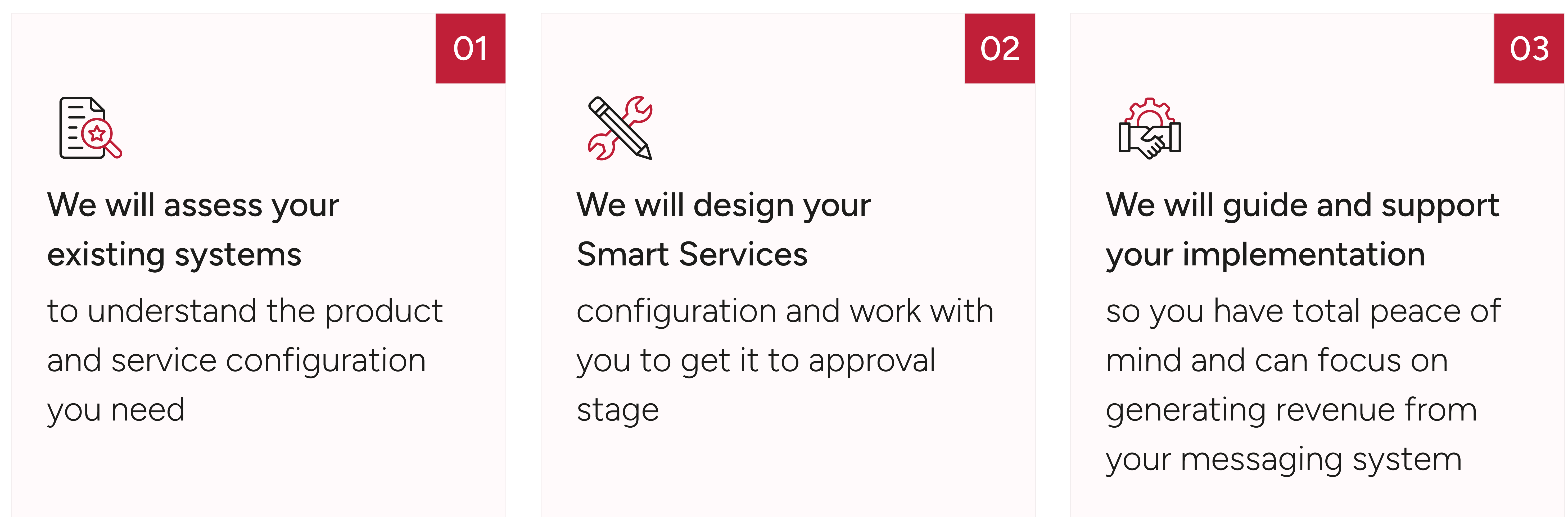


Smishing Prevention

Service Implementation

Additional technical components installed at each Mobile Operator's Network with access provided to Openmind's Global Operations team

Setting up Open Protect in 3 simple steps:



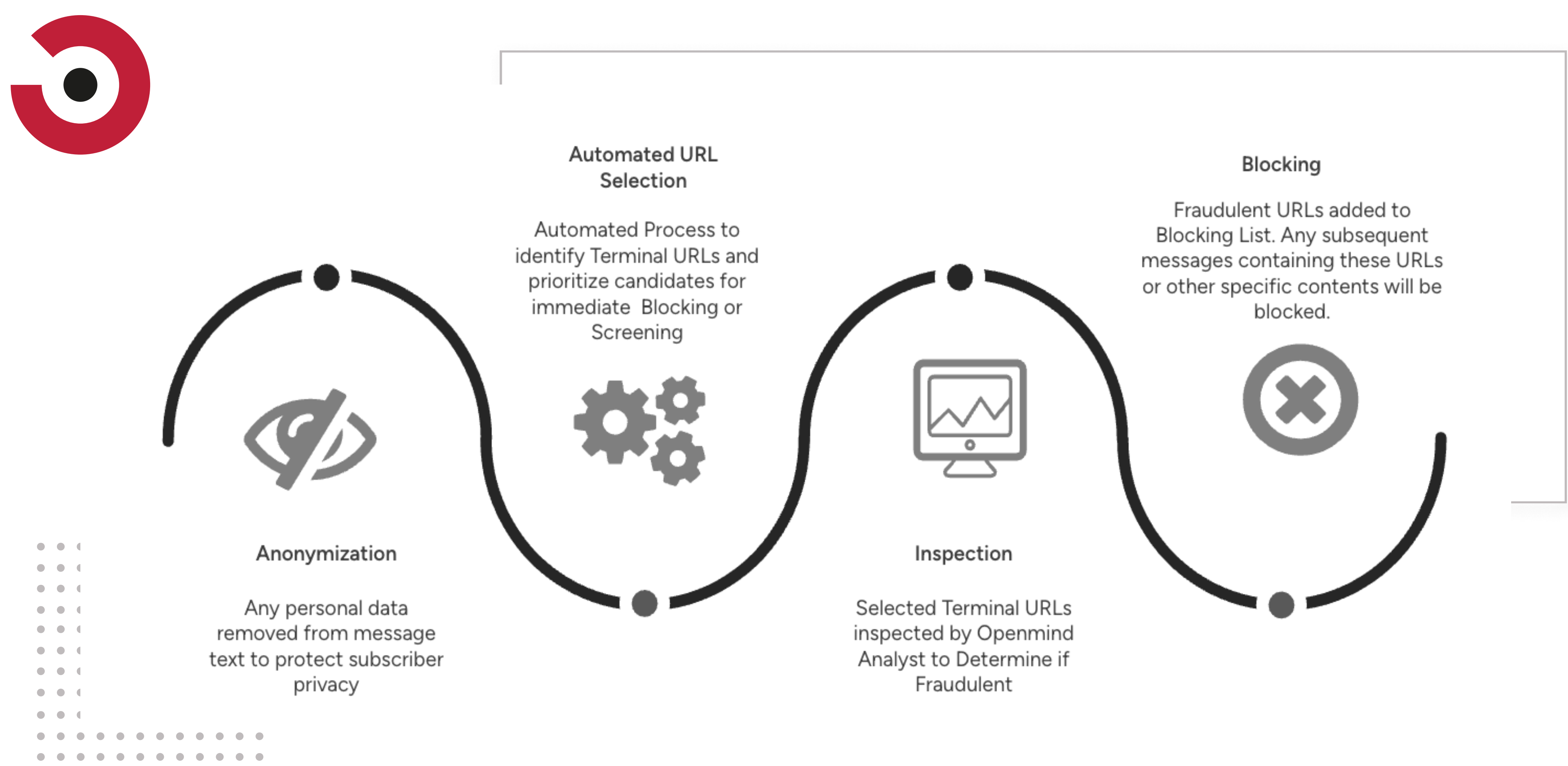
Subscriber Data Protection

- | Given & Family names replaced with 'NAME'
- | All numeric characters replace with the digit '5'
- | Email addresses replaced with 'EMAIL'
- | Message Metadata (Originating & Destination Addresses) obfuscated

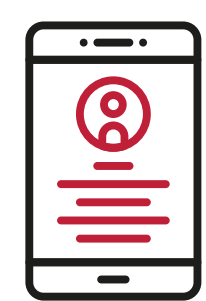


URL Analysis Workflow

How Messages are Screened by Openmind to Stop Smishing



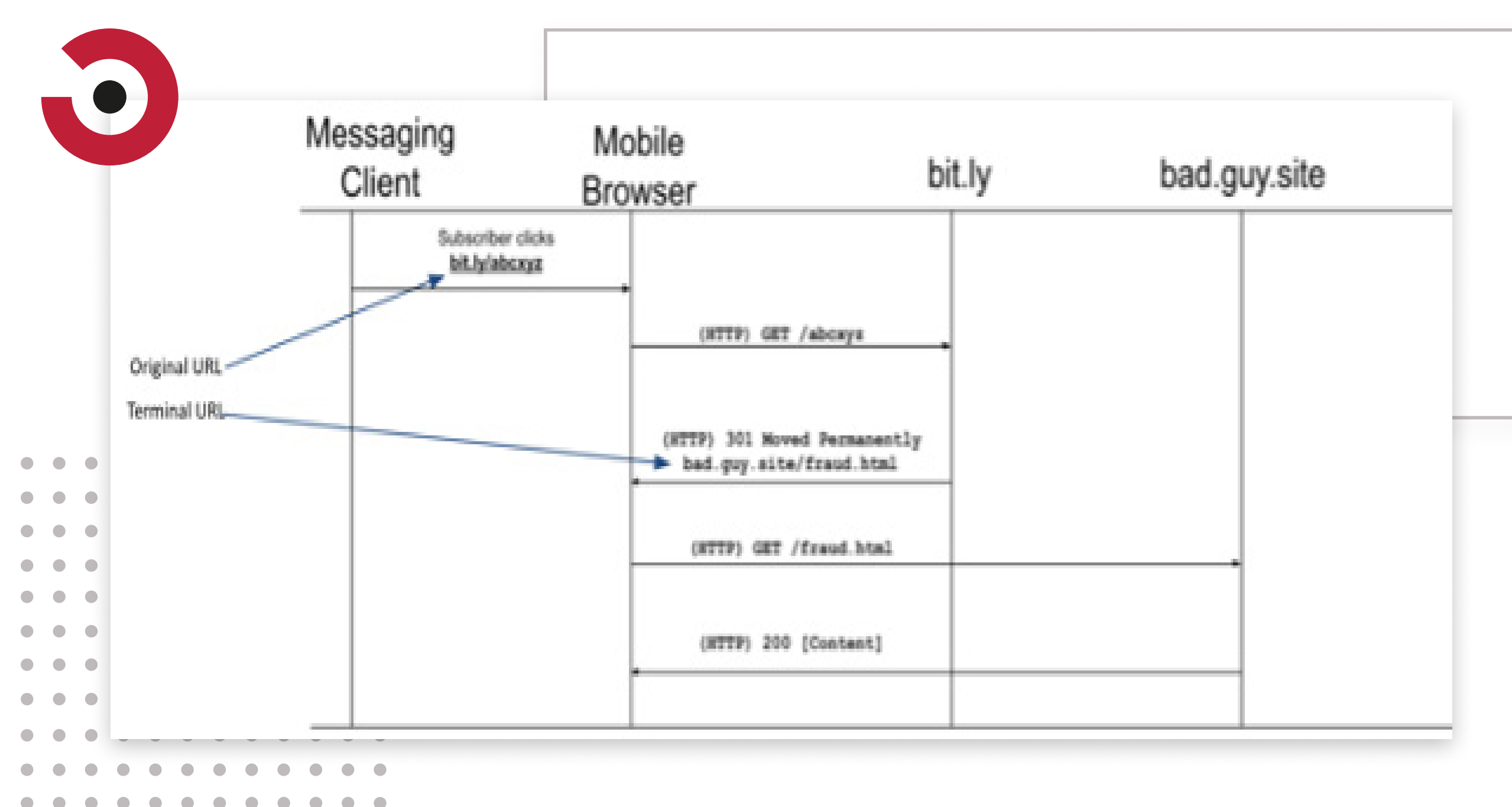
URL Screening



Custom Analysis

When specific attacks such as FluBot emerge, custom screening functions are created by our team based on detailed analysis of the threat

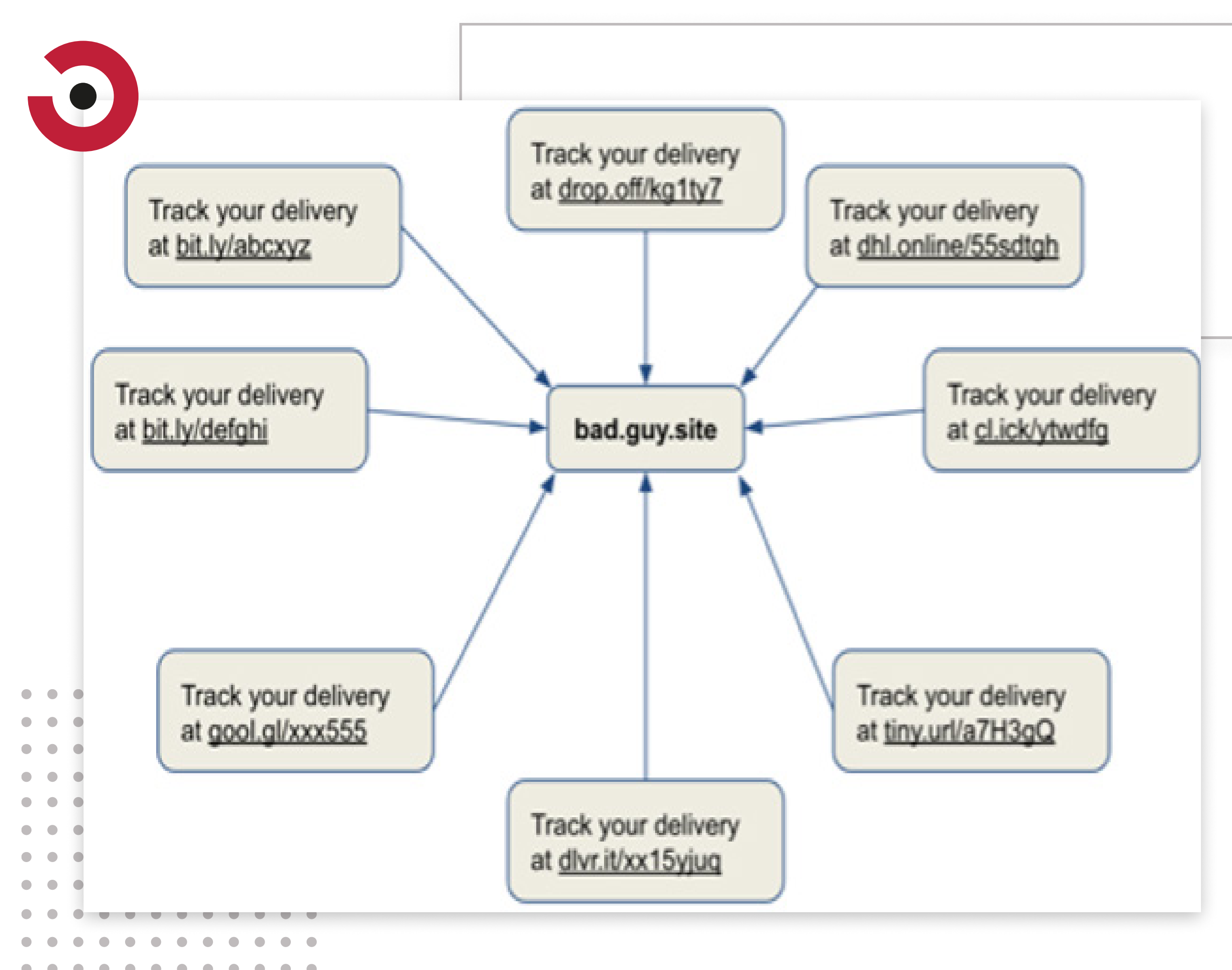
Allows for precisely targeted automated blocking of incoming messages



URL Redirection

The Primary URL contained in SMS text redirects to a Terminal URL hosting the malware

Objective is to identify the Terminal URL and block all messages containing URLs that redirect to that



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Our worldwide base of 40+ installed SMS Firewalls gives us unique visibility on the threats and opportunities facing Operators.

The Openmind **Advantage**

We are 100% focused on enabling and protecting mobile messaging services at Operators around the world

We continuously lead the way in bringing new innovations to market that make messaging safer for subscribers and more profitable for Operators. Our worldwide base of 40+ installed SMS Firewalls gives us unique visibility on the threats and opportunities facing Operators.

Our agile development and CI/CD delivery processes means our customers always have access to the latest functionality:

Speed of reaction is key to stopping the damage caused by Fraud

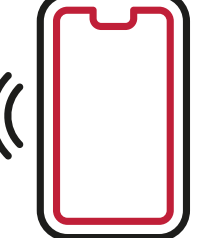
Rapid time to market for initial service, updates and improvements



About Openmind Networks

Openmind are world leaders in mobile messaging. Our consolidated and flexible platform, delivered via a DevOps process, provides our Mobile Operator, Wholesale Operator and Messaging Aggregator customers with new revenue-driving opportunities at the lowest total cost of ownership.

Get in touch with us now:

 + 353 1 633 0070

 + 353 1 670 8008

 sales@openmindnetworks.com

 Twitter

 LinkedIn

 Youtube

Deloitte.

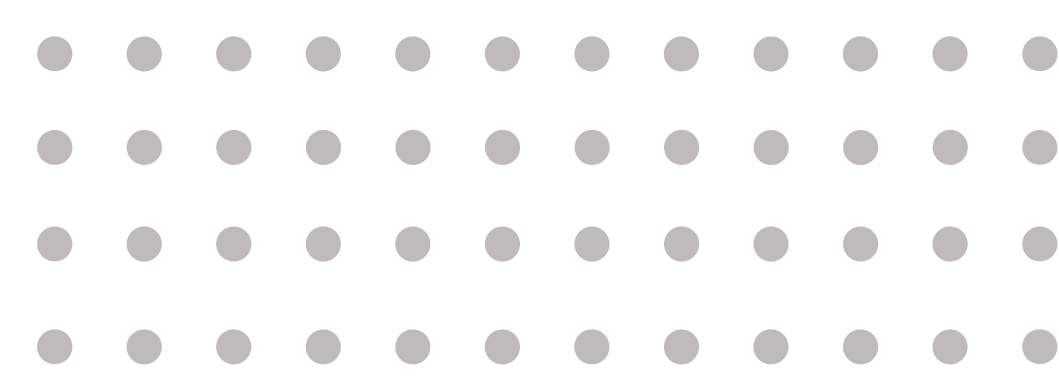


GOLD STANDARD WINNER

Winner of Deloitte Best Managed Company Five

Years Running 2015 - 2019





Delivering and Connecting more Messages between **International Mobile Operators** than any other Vendor in the World



Silicon Valey | Dublin | Amsterdam | Prague | Dubai | Kuala Lumpur

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